Dropsonde Data Quality Report

Clouds, Aerosol and Monsoon Processes-Philippines Experiment (CAMP²Ex, 2019)

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Campaign Websites:

CAMP²Ex home page:

https://espo.nasa.gov/camp2ex

AVAPS dropsondes home page:

https://www.eol.ucar.edu/observing_facilities/avaps-dropsonde-system

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2 Dataset overview

The Clouds, Aerosol and Monsoon Processes-Philippines Experiment (CAMP²Ex) is a NASA airborne mission with the goal to characterize the role of anthropogenic and natural aerosol particles in modulating the frequency and amount of warm and mixed phase precipitation in the vicinity of the Philippines during the Southwest Monsoon. In partnership with Philippine research and operational weather communities, CAMP²Ex provides a comprehensive 4-D observational view of the environment of the Philippines and its neighboring waters in terms of microphysical, hydrological, dynamical, thermodynamical and radiative properties of the environment, targeting the environment of shallow cumulus and cumulus congestus clouds.

The NASA Earth Science Division operated NASA's P-3 (tail number N426NA) research aircraft and the SPEC, Inc. Lear Jet 35A out of Clark Airport in the Philippines during the period 20 August to 10 October 2019. The NASA P-3 conducted nineteen research flights, during which between five and eighteen NCAR RD41 dropsondes were released for a total of 197 sondes.

The flight tracks of all 19 research flights are shown in Figure 1, including the locations of all dropsonde releases.

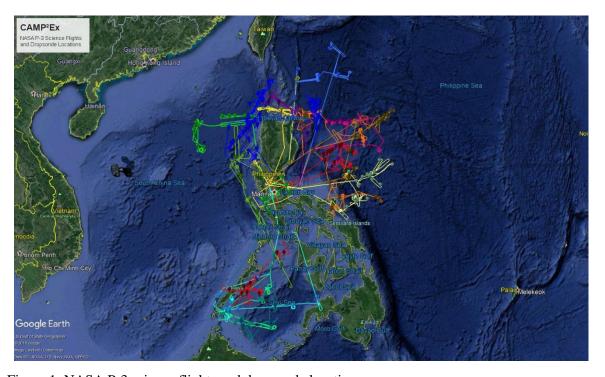


Figure 1: NASA P-3 science flights and dropsonde locations.

Table 1 provides a summary of all dropsondes that were released during CAMP²Ex. The quadrant indicates where, relative to Clark Airport, the majority of the dropsondes in a particular research flight were released. A detailed listing of all profiles is provided in Section 8.

Table 2 provides a summary of the performance of the dropsonde system as whole. In total, 197 sondes were released from the aircraft. Three soundings failed at launch and provided no data. In three soundings, the GPS unit failed completely and provided no useful wind and position information. In all, entire profile data down to the surface were retrieved. However, GPS wind and position information was delayed in a significant fraction of the soundings, leading to some loss of wind data at the top of the profile below flight level. This issue is discussed in more detail below.

Table 1: Summary of all successful sonde releases during CAMP²Ex. The quadrant indicates where the majority of the drops were released during that flight relative to Clark Airport.

Flight	Quadrant	Date	# of Soundings
SF01	NE	24 Aug	15
SF02	NW	27 Aug	11
SF03	SW	29 Aug	9
SF04	SW	31 Aug	9
SF05	SW	04 Sep	5
SF06	SW	07 Sep	9
SF07	NE	09 Sep	10
SF08	NE	13 Sep	7
SF09	SW	15 Sep	11
SF10	SW	16 Sep	18
SF11	NE	19 Sep	5
SF12	NE	21 Sep	11
SF13	SW	24 Sep	16
SF14	SE	25 Sep	7
SF15	NE	27 Sep	8
SF16	NW	29 Sep	17
SF17	SW	01 Oct	13
SF18	SE	03 Oct	7
SF19	NE	05 Oct	10

Table 2: Summary of the dropsonde system performance.

	# of Sondes	Percent
Total number of sondes released	197	100
Successful releases	194	98.5
Complete thermodynamic profiles to the ground	194	98.5
Complete wind profiles to the ground*	191	97.0

^{*)} Wind and position data were delayed in a number of soundings, which is not considered in this summary statistics. All but three sondes provided wind measurements in the lower part of the profile.

3 Dropsonde sounding system

The NCAR dropsonde system deployed in CAMP²Ex used a manual launcher and the NCAR Dropsonde model RD41, which is produced and marketed in license by Vaisala.

The RD41 dropsonde uses the pressure, temperature, and humidity sensor of the Vaisala RS41 radiosonde and includes an improved version of the GPS, telemetry, and parachute release system of the previous RD94 dropsonde, which had been in use between 2010 and 2018. The RD41 dropsonde has been extensively evaluated by NOAA/AOC and the Air Force and has been in operational use for hurricane observations since 2019.

The smaller version of this dropsonde, the NCAR Research Dropsonde NRD41, was developed in parallel to the RD41 and has most recently been used during the Organization of Tropical East Pacific Convection (OTREC) campaign, which took place in the Eastern Pacific and Caribbean in parallel with CAMP²Ex.

All dropsonde humidity sensors were reconditioned on the aircraft prior to take off. This process, which is unique to the xRD41 dropsondes, reduces the potential of humidity contamination to a minimum and assures the best measurement performance of the humidity sensor throughout the entire altitude and temperature range of a dropsonde profile.

The AVAPS LabVIEW based software receives and stores data from the dropsondes and the aircraft data system and monitors the entire AVAPS system. The AVAPS station and manual launch tube were installed in the rear of the NASA P-3. All sondes were initialized by the dropsonde operators prior to a drop and then placed inside the launch tube. At the intended drop location, the operator released the sondes by activating the electrically controlled launcher release valve. Due to the shielding provided by the launch tube, no data were received while the dropsondes were inside the launch tube.

CAMP²Ex scientific staff controlled the quality of each sounding after each science flight using the Atmospheric Sounding Processing ENvironment (ASPEN) software package.

The GPS units of the dropsondes were initialized as part of the pre-launch preparations to speed up the lock onto the satellite signals. This required continued reception of GPS signals by the GPS receivers after initialization. The GPS signals were provided by a GPS antenna outside the aircraft and sent through a series of splitters in the AVAPS rack and the launch tube. Unfortunately, the cable feeding the GPS signals to the re-radiation unit of the launch tube had been disconnected between the test flights and the main campaign. In addition, a post campaign inspection of the setup found that the cable used during the campaign was most likely broken. While this component had been working properly during the test flights, it was no longer working during the campaign. As a result, all sondes were launched without proper GPS lock, which forced them to acquire proper GPS lock after launch and significantly delayed the start of wind measurements.

4 Quality control procedures

4.1 Standard quality control

Standard quality control in near real time and as part of the final data QC is based on the algorithms implemented in the ASPEN software. The following quality checks, corrections, and calculations are performed:

- Removal of outliers and suspect data points in pressure, temperature, humidity, zonal and meridional wind, latitude, and longitude
- Removal of data between release from the aircraft and equilibration with atmospheric conditions
- Dynamic correction to account for the lag of the RD41 temperature sensor using the appropriate coefficients for the RD41 dropsondes
- Dynamic correction to account for the sonde inertia in the determination of the wind profile using the appropriate parameters for the RD41 dropsondes
- Smoothing of pressure, temperature, humidity, zonal and meridional wind
- Recomputation of wind speed and wind direction after smoothing of the wind components
- Extrapolation of the last reported pressure reading to a surface pressure value, based on the fall rate of the sonde
- Recalculation of the geopotential height from the surface to the top of the profile
- Computation of the vertical wind speed component

This campaign used the new RD41 dropsonde, which has a faster temperature sensor and faster RH sensor than the older RD94 sondes. This has been considered in the final dropsonde QC by changing the ASPEN QC parameters for these two sensors. The equilibration time for the temperature and RH sensor has been adjusted to 10 s, and the smoothing wavelength for both parameters has been adjusted to 5 s.

4.2 Custom quality control

4.2.1 Pressure corrections

The pressure sensor of the RD41 dropsonde is known to have a small bias. The sensor bias is measured during the production of the dropsondes and stored in the sonde to minimize the bias during observation. A correction has already been applied in the generation of the raw data and all data are assumed to have only a minimal bias.

The statistics of the pressure correction built into the sonde is shown in Figure 2. The mean pressure offset is -0.56 hPa and the standard deviation 0.18 hPa.

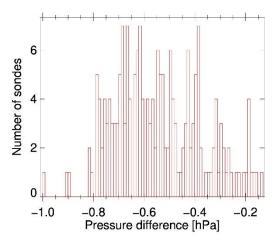


Figure 2: Pressure offset between the dropsonde and the reference stored in the sonde.

In sounding 20190830_014139, the pressure correction has erroneously not been applied in real time. This was corrected in the post processing, and a pressure offset correction of 0.76 hPa was added to the entire profile.

During CAMP²Ex, most sondes exhibit a small pressure measurement issue. For reasons currently unknown, the dropsondes occasionally repeated a reported pressure measurement. This happened up to 20 times per sounding and in a few cases more frequently. While this is barely noticeable in any vertical profile, it slightly increases the noise in the calculated vertical fall rate. In post processing, these repeated pressure readings were interpolated and the fall rates recalculated. Only pressure readings had to be corrected. Temperature and relative humidity readings do not show any artificial repetition of measurements.

4.2.2 Temperature performance

The performance of the temperature sensor was without anomalies. In all soundings the sensor equilibrated to ambient conditions within less than 10 s after release.

4.2.3 Relative humidity

The RH sensor on the RD41 dropsondes should be reconditioned prior to launch and the sondes store whether the reconditioning was successful. With this information, we could verify that all sondes were

properly reconditioned prior to take off on each flight. Any contamination in the sensor material was removed and the relative humidity sensors are expected to have a negligible calibration drift.

The RH sensor worked as expected in all profiles. Four soundings show shallow layers with a relative humidity well above 100% (Table 3). All high RH layers correlate with significant updrafts or turbulence, where water loading may influence the humidity sensor and microphysics may lead to humidities above 100%. While in these layers the uncertainty of the RH sensor may be larger than normal, there is no indication that the relative humidity measurements outside of these layers have been affected.

In the quality-controlled data, these layers have been set to 100% following meteorological convention.

#	Research Flight	Sounding	Layer thickness	Layer RH
1	SF03	20190829_235222	300 m	103.6
	SF03	20190829_235222	200 m	105.6
2	SF13	20190924_030458	2 km	< 108 %
3	SF13	20190924_063601	200 m	103.5
4	SF13	20190924 064021	1.3 km	< 109 %

Table 3: Layers with measurements of relative humidity well above 100%.

Sounding 20190904_013129 (SF05) shows an unusually dry boundary layer with a minimum relative humidity of 42 % at about 500 m altitude. This is about 50% drier than the median at that altitude and 20% drier than the next driest profile. At the same time, the profile is nearly isothermal in the boundary layer, showing the warmest temperatures of the entire data set. The fall rate is normal and the profile does not indicate extreme atmospheric conditions. All engineering data of the sonde indicate proper functioning of the instrument, and the humidity profile lies within the normal range between flight level and about 2 km. Below 2 km, the profile shows a smoother profile than all other soundings. The last data point above the surface shows a relative humidity within the distribution of all other profiles. This profile may require more scientific attention and validation.

4.2.4 Data coverage

Almost all soundings transmitted data to landing in the water and some sondes continued transmitting data from the ocean surface before sinking. Data from the ocean surface were removed from the final data set.

Although sounding 20190907_071254 stopped transmitting abruptly, which normally indicates landing in the water, the GPS altitude, the downward integrated geopotential altitude, and the last reported pressure indicate that telemetry transmission may have stopped about 60 m above the water surface. As a result, this sounding was processed with a downward integrated geopotential altitude and no reported surface pressure.

Due to the poor GPS performance in two soundings, some data immediately after launch were not processed properly. Table 4 lists these soundings and the length of the data gap in the processed data. These data were recovered from the raw data and added to the processed data.

Table 4: Soundings with gaps in processed data after launch.

#	Research Flight	Sounding	Data gap after launch [s]
1	SF10	20190916_225538	12
2	SF16	20190929_070644	36

Two soundings did not produce any data after launch, and one sounding produced a negligible amount of data after launch. These sondes are listed in Table 5 and are omitted in the final data set.

Table 5: Failed sondes at launch.

#	Research Flight	Sounding	Comment		
1	SF10	20190917_022806	No data after launch		
2	SF13	20190924_022511	No data after launch		
3	SF17	20191002_020925	Parachute not released, PTU data after		
			launch sparse, no wind data		

4.2.5 Parachute performance

The parachute performed as expected in 97.8 % of all soundings. The median fall rate at the time of landing was 9.9 ± 0.7 m/s. In four sondes (Table 6), the parachute apparently did not function properly throughout the profile and these sondes fell significantly faster. The failure is possibly due to the parachute not opening properly or the delay ribbon properly unwinding. The data of these soundings are included in the data set since no other issues were observed related to the parachute performance.

Some soundings experienced significant variations in the fall rate throughout the profile. These variations are related to strong up- and down-drafts and are not considered a performance issue of the parachute.

Table 6: Fast fall soundings

#	Research Flight	Sounding	Median fall rate
1	SF01	20190825_010501	16.3
2	SF04	20190831_034811	18.3
3	SF06	20190907_032811	19.1
4	SF19	20191005_061720	18.3

4.2.6 GPS performance

As described above, the GPS performance of all sondes was severely affected by a broken cable for the reradiation of the GPS signal inside the launch tube, which significantly delayed the start of wind measurements. The median time to acquire GPS lock after launch was 32 s, which is consistent with laboratory measurements of GPS cold starts, with some sondes requiring more than 6 min to acquire GPS lock

The availability of GPS after launch across all soundings is shown in Figure 3. Half of all soundings report proper GPS position and winds 500 m below flight level and 80 % of all soundings report proper GPS at 2.5 km below flight level. Unfortunately, this is a significant degradation from the nominal operation of the dropsondes.

Relative to the surface, the GPS availability increases from about 80% at 2.5 km to more than 98 % in the lowest 500 m above the surface. This availability would have been expected throughout the entire profile, had the re-radiation of the GPS signal inside the launch tube worked properly.

Once GPS lock had been acquired, horizontal speed accuracies reported by the GPS were typically around 0.2 m/s with only three sondes reporting horizontal speed accuracies of up to 0.5 m/s. The horizontal wind uncertainty is slightly larger than this reported value due to the drag correction of the falling dropsonde, which was applied in post processing.

In two soundings (20190831_034811 and 20191005_061720), the GPS unit failed completely and did not report any position or wind measurements. In one sounding (20190922_025606), the GPS measurements reported an excessive speed error and altitude offset. The GPS data in this sounding were removed.

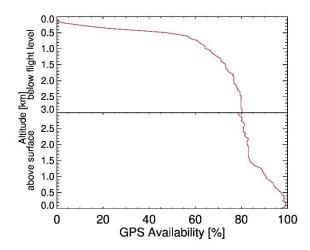


Figure 3: Availability of GPS across all soundings as function of altitude below flight level (top) and above surface (buttom).

5 Data file format

The format follows that defined for the NCAR/EOL/ISF radiosonde NetCDF data files. It is based on the Climate and Forecasting (CF) convention version 1.6 and is compatible with any tool accepting this convention. The data file format is described in Vömel et al. (2018). A similar data format description for dropsondes is in preparation and will describe the more extensive metadata.

The format description can be found at:

Vömel, H., I. Suhr, and G. Granger, 2019,NCAR/EOL/ISF Dropsonde NetCDFData Files, UCAR/NCAR -Earth Observing Laboratory. https://doi.org/10.26023/54wh-rj45

6 Sounding metrics

6.1 Horizontal drift

Wind speeds during CAMP²Ex were generally weak. As a result, the horizontal drift of the dropsondes was relatively small (Figure 4). The mean horizontal distance the dropsondes traveled was 3.1 km and only one sonde traveled more than 10 km horizontally.

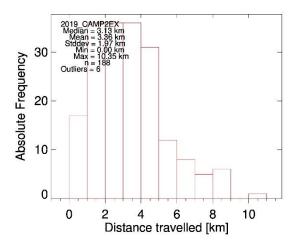


Figure 4: Distance between launch and landing for all dropsondes during CAMP²Ex.

6.2 Surface pressure

The surface pressure reported by the sondes is an extrapolation of the last measured air pressure above the surface to sea level using the current fall rate. The surface pressure reported by all sondes, which transmitted to the surface is shown in Figure 5.

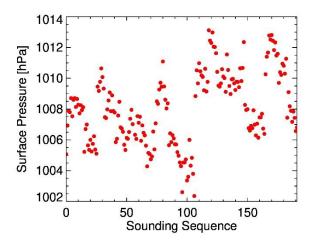


Figure 5: Surface pressure reported by all sondes

6.3 Humidity measurements

Relative humidity measurements from dropsondes are most challenging due to the fast fall rate relative to the typical response time of the sensors. The humidity sensor on the xRD41 dropsondes is identical to that on the Vaisala RS41 radiosondes and suitable for dropsonde observations. The correlation between all temperature and all relative humidity measurements, shown in Figure 6, reveals the sensitivity of this sensor over the parameter space during the campaign. Figure 6 shows that the entire range between 0 and 100% can be observed and that there is a very sharp drop-off above 100%. Following meteorological convention, values above 100% are limited to 100% in the quality controlled data.

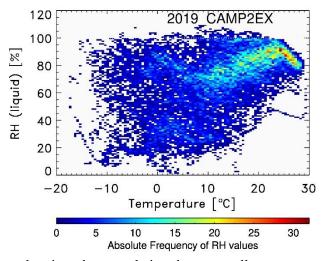


Figure 6: Density plots showing the correlation between all temperature and relative humidity measurements based on raw data.

6.4 Fall rate

A histogram of the fall rate at the time of landing is shown in Figure 7. The median fall rate at landing was 9.9 m/s. The spread of this distribution is due to the performance of the parachutes, as well as atmospheric

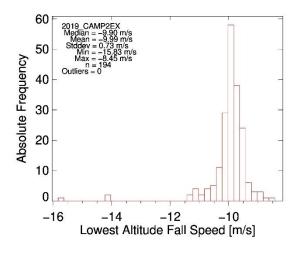


Figure 7: Fall speed near the surface for all dropsondes.

variability in the surface layer. The median fall rate over the entire profile is 11.3 m/s. The consistency of the fall times highlights the quality of the parachute performance of the dropsondes used in CAMP²Ex.

7 Atmospheric observations

7.1 Temperature

The temperature measured by all dropsondes is shown as contour plot in Figure 8. The individual research flights are separated by vertical lines. The temperature at flight level were in the range of -17° C to $+10^{\circ}$ C and near the surface in the range of 25° C to 31° C.

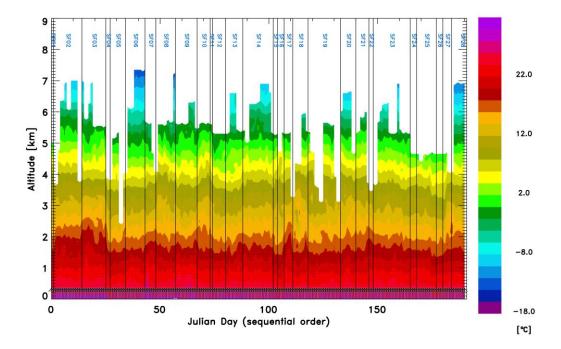


Figure 8: Color contours for all temperature measurements. All soundings are shown in the sequence in which they were released. White areas reflect the different release altitudes. The different science flights are separated by vertical lines and indicated near the top.

7.2 Relative humidity

Relative humidity measured by all dropsondes is shown in Figure 9. At temperatures below 0° C, relative humidity is expressed as relative humidity over ice instead of the conventional relative humidity over liquid water.

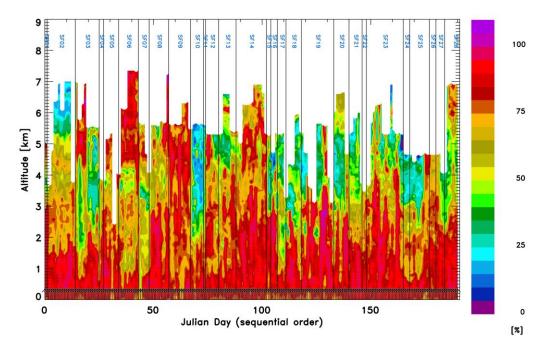


Figure 9: Color contours for all relative humidity measurements. Note that at temperatures below freezing, relative humidity is calculated with respect to ice.

7.3 Zonal winds

Zonal wind speeds are shown in Figure 10. Yellow to reddish colors indicate westerly winds, green to blue colors indicate easterly winds. The white areas indicate mostly missing data, because of the late lock of the GPS unit.

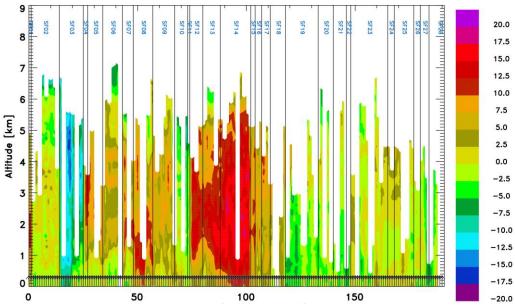


Figure 10: Color contours for all zonal wind speed measurements

8 List of all soundings

		Time		Serial	Alt.	Latitude	Longitude	Duration
#	Date [UTC]	[UTC]	Drop Name	number	[km]	[deg]	[deg]	[min]
1	24 Aug 2019	23:11:45	SF01_S01	182440092	6.8	18.24600	118.66646	9.3
2	24 Aug 2019	23:34:23	SF01_S02	182510813	5.2	18.53179	120.49197	7.5
3	25 Aug 2019	00:27:41	SF01_S03	182440095	3.8	19.05619	123.78547	5.7
4	25 Aug 2019	00:31:52	SF01_S04	182510683	4.9	19.26097	123.95997	7.3
5	25 Aug 2019	00:42:18	SF01_S05	182510602	6.5	19.17851	123.36396	9.5
6	25 Aug 2019	00:46:33	SF01_S06	182430265	6.5	18.85147	123.45320	9.3
7	25 Aug 2019	00:56:53	SF01_S07	182520103	7.1	18.50024	123.76839	10.3
8	25 Aug 2019	01:01:29	SF01_S08	182430269	7.2	18.91487	123.69113	10.3
9	25 Aug 2019	01:05:00	SF01_S09	182440070	7.2	19.24966	123.62818	7.1
10	25 Aug 2019	01:32:25	SF01_S10	182440316	7.2	18.33297	123.90068	10.1
11	25 Aug 2019	01:49:03	SF01_S11	182511246	7.2	19.23900	123.71709	10.1
12	25 Aug 2019	01:51:10	SF01_S12	182440071	7.2	19.04735	123.69650	10.3
13	25 Aug 2019	01:55:08	SF01_S13	182520108	7.2	18.69405	123.61471	9.7
14	25 Aug 2019	03:55:54	SF01_S14	182510681	8.1	19.35286	123.51954	11.1
15	25 Aug 2019	04:13:58	SF01_S15	182430263	8.1	17.74378	123.65341	11.3
16	27 Aug 2019	01:01:19	SF02_S01	182720746	7.1	18.73007	120.02476	10.0
17	27 Aug 2019	01:21:55	SF02 S02	182511238	6.0	18.90345	118.32220	8.8
18	27 Aug 2019	01:27:46	SF02_S03	182650211	7.1	18.87233	118.74640	9.8
19	27 Aug 2019	01:31:48	SF02_S04	183320982	7.1	18.85038	119.07968	10.1
20	27 Aug 2019	01:37:59	SF02_S05	183320255	7.1	18.80803	119.64871	10.2
21	27 Aug 2019	03:34:33	SF02_S06	183321086	5.7	18.00049	116.66986	8.3
22	27 Aug 2019	03:50:30	SF02_S07	182720748	5.7	17.36382	116.78424	8.2
23	27 Aug 2019	04:04:06	SF02_S08	182720636	5.7	18.46195	116.88981	8.2
24	27 Aug 2019	04:11:52	SF02_S09	182650212	5.7	18.62255	116.74038	8.1
25	27 Aug 2019	04:15:28	SF02_S10	183320257	5.7	18.31644	116.66205	7.5
26	27 Aug 2019	04:32:31	SF02_S11	182730027	8.1	17.24052	117.19701	11.0
27	29 Aug 2019	23:46:14	SF03_S01	182720793	5.0	9.98249	119.66130	7.5
28	29 Aug 2019	23:52:21	SF03_S02	183321191	5.3	9.72807	119.26957	7.5
29	30 Aug 2019	00:02:04	SF03_S03	182720674	5.3	9.17998	118.75092	7.8
30	30 Aug 2019	00:08:50	SF03_S04	183320983	5.3	9.53697	118.89978	7.3
31	30 Aug 2019	01:04:52	SF03_S05	183320984	7.1	9.24769	119.05355	10.0
32	30 Aug 2019	01:41:38	SF03_S06	182650215	7.1	9.44020	118.08552	10.1
33	30 Aug 2019	02:22:34	SF03_S07	182650213	2.6	9.09929	119.70391	4.1
34	30 Aug 2019	04:33:05	SF03_S08	182510824	4.5	11.29824	120.87186	6.4
35	30 Aug 2019	04:38:04	SF03_S09	182511240	4.2	11.28389	121.25897	6.3
36	31 Aug 2019	00:02:22	SF04_S01_mostlyclrair	182440073	6.4	10.02793	119.72642	9.1
37	31 Aug 2019	00:32:33	SF04_S02_wpalawan	182430270	6.3	9.15755	117.46692	9.0
38	31 Aug 2019	00:58:14	SF04_S03_sattrack	183510468	6.3	8.20907	117.95542	9.0
39	31 Aug 2019		SF04_S04_sattrackNend	182440079	7.5	8.70199	118.08686	10.4
40	31 Aug 2019	02:46:43	SF04_S05_satpass0247	183451041	7.5	8.35025	117.99399	10.5
41	31 Aug 2019	03:05:11	SF04_S06_strtlnE	183510095	7.6	8.37532	117.80926	10.3
42	31 Aug 2019	03:13:16	SF04_S07_strtlnE2	182650207	7.6	8.37601	118.48341	10.4
43	31 Aug 2019	03:48:11	SF04_S08_strtlnE3	182630336	7.5	8.38065	121.50705	6.6
44	31 Aug 2019	05:26:00	SF04_S09_CALIPSOdrop	183320254	8.4	8.72733	122.83495	11.2
45	04 Sep 2019	01:31:29	SF05_S01_SWpalawan	182440076	5.8	8.88627	117.33017	8.4
46	04 Sep 2019	02:04:09	SF05_S02_1steldstrt_transect	182440075	5.8	7.34791	118.66481	8.6
47	04 Sep 2019	03:49:02	SF05_S03_1stcldstrt_alongN	182510605	6.4	7.65014	118.58438	9.2
48	04 Sep 2019	05:06:19	SF05_S04_overshiptrk	182440078	4.8	7.50015	120.23288	7.3
49 50	04 Sep 2019 07 Sep 2019	06:17:36 00:31:18	SF05_S05_2ndcldstrt_transect	182440074	4.2	8.37993	120.53648 118.97271	6.4
51	07 Sep 2019 07 Sep 2019	00:31:18	SF06_S01_envcloud SF06_S02_abovestreets	182440077 183340018	5.8 5.8	16.57766 17.52451	118.97423	8.4 8.4
52	07 Sep 2019 07 Sep 2019	03:05:51	SF06_S02_abovestreets SF06_S03_vicinity_strong_conv	183340018	5.8	15.65487	118.97423	8.5
53	07 Sep 2019 07 Sep 2019	03:03:31	SF06_S03_vicinity_strong_conv	182440094	5.8	16.75851	119.07204	5.8
54	07 Sep 2019 07 Sep 2019	04:28:13	SF06_S05_ne_env_conds	182440093	5.9	15.53239	119.46842	8.3
55	07 Sep 2019 07 Sep 2019	04:28:13	SF06_S05_ne_env_conds SF06_S06_envcond_mindorost	182440093	6.5	11.99564	120.47302	8.8
JJ	07 Sep 2019	05.11:00	31.00_200_cuvcond_mindorost	102430208	U.J	11.77304	120.4/302	0.0

56	07 Sep 2019	05:59:51	SF06_S07_throughaltocu	182430264	5.8	10.61400	121.07404	8.5
57	07 Sep 2019	06:35:58	SF06_S08_env_before_sec_lr	182440086	7.4	13.61691	119.98608	10.3
58	07 Sep 2019	07:12:54	SF06_S09_beforeboxspiral	182440085	7.4	14.22304	119.62713	10.2
59	09 Sep 2019	00:47:37	SF07_S01_intransit	182510625	5.8	17.73682	122.78715	8.6
60	09 Sep 2019	00:52:36	SF07_S02_aheadconv	182510626	5.8	18.22267	122.79524	8.5
61	09 Sep 2019	00:59:25	SF07_S03_behindconv	183510011	5.8	18.87323	122.80625	8.5
62	09 Sep 2019	01:09:00	SF07_S04_edgeconv	182510629	5.8	18.51009	123.16419	8.7
63	09 Sep 2019	01:14:53	SF07_S05_convtowr	182430266	5.8	18.58303	123.02254	7.8
64	09 Sep 2019	02:17:58	SF07_S06_behindcldpl	182510611	6.4	18.69540	123.11454	9.0
65	09 Sep 2019	02:22:51	SF07_S07_aheadcldpl	183510096	6.4	18.34131	123.35563	9.2
66	09 Sep 2019	02:30:18	SF07_S08_multicldlayrs	182510628	6.4	17.97302	122.97718	9.4
67	09 Sep 2019	05:42:14	SF07_S09_hsrltrnsct	182440096	7.8	17.34292	126.21512	10.7
68	09 Sep 2019	07:29:58	SF07_S10_convrgn	183451043	5.6	17.13511	126.02403	8.3
69	13 Sep 2019	21:09:28	SF08_S01_A1drop	182510608	5.8	16.04301	121.92909	8.4
70	13 Sep 2019	21:29:45	SF08_S02_A2drop	182510635	5.8	17.83537	122.25091	8.4
71	13 Sep 2019	21:37:20	SF08_S03_A3drop	182510633	5.8	18.50586	122.37108	8.3
72	13 Sep 2019	21:48:41	SF08_S04_A5drop	183510461	5.8	19.50643	122.55112	8.4
73	13 Sep 2019	22:00:23	SF08_S05_A7drop	182510609	5.8	20.53951	122.74158	8.5
74	13 Sep 2019	22:31:18	SF08_S06_PPmid	182510607	5.8	19.01857	121.74931	8.2
75	14 Sep 2019	03:48:20	SF08_S07_boxsprltop	184040103	5.8	16.21134	120.25441	8.3
76	15 Sep 2019	22:47:26	SF09_S01_preconvline1	183330177	5.5	11.22451	120.70703	7.8
77	15 Sep 2019	22:50:41	SF09_S02_preconvline2	184020527	5.5	10.97967	120.63493	8.0
78	15 Sep 2019	22:56:22	SF09_S03_postconvline	184040023	5.5	10.54805	120.50824	8.1
79	15 Sep 2019	23:43:02	SF09_S04_HSRLleg1	183510462	5.5	8.05191	117.62803	8.0
80	15 Sep 2019	23:51:18	SF09_S05_HSRLleg2	182830551	5.5	7.59824	118.22146	7.8
81	15 Sep 2019	23:59:50	SF09_S06_HSRLleg3	182510610	5.5	7.42042	118.99636	8.1
82	16 Sep 2019	00:13:10	SF09_S07_HSRLleg4	182510631	5.5	7.14372	120.18756	8.0
83	16 Sep 2019	02:42:26	SF09_S08_ASTERdrop	184040104	6.8	8.05299	117.48553	9.7
84	16 Sep 2019	03:13:17	SF09_S09_over2ndconvline	182510636	6.8	8.75271	119.75403	8.8
85	16 Sep 2019	03:15:16	SF09_S10_E2ndconvline	182510612	6.8	8.74016	119.91882	9.4
86	16 Sep 2019	03:23:47	SF09_S11_W2ndconvline	182440313	6.8	9.03018	119.96270	9.4
87	16 Sep 2019	22:55:38	SF10_S01	182830533	4.8	13.00952	124.68217	7.0
88	16 Sep 2019	23:49:59	SF10_S02	184040024	5.6	13.43236	124.94033	8.2
89	16 Sep 2019	23:56:12	SF10_S03	184020490	5.6	13.67961	125.44557	8.3
90	17 Sep 2019	00:46:34	SF10_S04	182830540	5.6	13.76539	126.12018	8.0
91	17 Sep 2019	00:53:56	SF10_S05	182830550	5.6	13.78041	125.55654	8.1
92	17 Sep 2019	01:00:09	SF10_S06	183330988	5.2	14.02311	125.35039	7.8
93	17 Sep 2019	02:26:40	SF10_S07	184020528	6.4	15.31464	125.22253	9.3
94	17 Sep 2019	02:34:15	SF10_S09	184020525	6.4	14.78195	125.59869	9.1
95	17 Sep 2019 17 Sep 2019	02:37:30	SF10_S10	182830552	6.4	14.56006	125.73892	9.1
96 97	17 Sep 2019 17 Sep 2019	02:47:11 02:50:28	SF10_S11 SF10_S12	184040019 184020524	6.4 6.4	14.97011 15.07775	125.95905 126.24057	9.1 8.7
98	17 Sep 2019 17 Sep 2019	02:30:28	SF10_S12 SF10_S13	183331041	7.1	15.76866	120.24037	9.8
99	17 Sep 2019 17 Sep 2019	03:07:00	SF10_S14	182830537	7.1	15.17451	126.63655	9.7
100	17 Sep 2019 17 Sep 2019	03:48:36	SF10_S15	183331042	7.1	14.76032	126.46775	9.9
101	17 Sep 2019	03:57:32	SF10_S15	183340016	7.1	14.46125	126.92049	9.7
102	17 Sep 2019	04:05:54	SF10_S17	183331047	7.1	15.04075	126.41884	9.7
103	17 Sep 2019	04:53:09	SF10_S17	183340017	6.8	14.98248	126.33122	9.5
104	19 Sep 2019	23:20:49	SF11_S01_Sconvline	182510814	5.4	15.34030	122.52217	7.9
105	19 Sep 2019	23:49:23	SF11_S02_S2ndconvline	182830543	5.4	17.58093	123.10215	8.0
106	20 Sep 2019	00:00:53	SF11_S03_N2ndconvline	182511237	5.8	18.46549	123.42223	8.3
107	20 Sep 2019	03:46:42	SF11_S04_SENWcldline	182520107	4.8	19.42110	121.62183	7.2
108	20 Sep 2019	05:26:24	SF11_S05_boxsprltop	182510604	7.7	19.44430	121.02909	10.4
109	21 Sep 2019	23:09:11	SF12_S01_ESARSI1	182730030	5.5	16.72868	123.35138	8.0
110	21 Sep 2019	23:23:10	SF12_S02_ESARSI2	182510680	5.5	16.75157	124.63150	8.2
111	21 Sep 2019	23:37:25	SF12_S03_ESARSI3	182650216	5.5	16.76285	125.90570	8.1
112	21 Sep 2019	23:42:27	SF12_S04_NWshlwculn	182650206	5.5	16.72181	126.34772	7.9
113	22 Sep 2019	02:21:56	SF12_S05_WVoverpass	182511248	4.5	18.06596	124.83409	6.7
114	22 Sep 2019	02:34:25	SF12_S06_nearconvcell	182650205	4.5	18.17326	124.37217	6.6

116 22 Sep 2019 03:15:25 SF12 S08 neurounveil3 18331045 4.5 18.11234 12.44124 6.9 117 22 Sep 2019 03:15:55 SF12_S10_Fourthrow 182310058 6.1 18.07938 125.55:010 8.8 119 22 Sep 2019 03:15:55 SF12_S10_Fourthrow 182310059 6.1 18.07938 125.55:010 8.8 12.07	115	22 5 2010	02.40.22	SE12 SO7	194020402	1.5	10 12400	124 41760	(0
118 22 Sep 2019 03:1134 SFI2 S09 Woutflow 18250063 6.1 18.07589 125.12965 8.9 118 22 Sep 2019 03:1525 SFI2 S.10 Fourthow 18251065 6.1 18.07589 125.12965 8.9 119 22 Sep 2019 04:1415 SFI2 S11 shiwcufid 183340059 6.1 16.07219 124.68055 8.9 120 24 Sep 2019 01:5714 SFI3 S01 suchur 18251124 5.5 18.18093 127.59440 8.1 122 24 Sep 2019 02:1512 SFI3 S02 suchur2 182520123 5.5 18.18093 127.59440 8.1 122 24 Sep 2019 02:5121 SFI3 S02 suchur3 18330777 4.9 17.92460 127.55940 7.3 123 24 Sep 2019 02:5121 SFI3 S05 sheadcoav 182520122 4.9 17.92460 127.55940 6.7 122 24 Sep 2019 05:0909 SFI3 S06 NEconvell 18333090 3.8 18.0554 127.7574 5.9 125 24 Sep 2019 05:0909 SFI3 S06 NEconvell 18333090 3.8 18.0554 127.7574 5.9 125 24 Sep 2019 05:0909 SFI3 S06 NEconvell 18333000 3.7 17.98733 127.48119 5.7 128 24 Sep 2019 06:09.23 SFI3 S07 convappr 182520105 5.8 16.40818 125.34873 8.5 128 24 Sep 2019 06:30.600 SFI3 S10 nearconv 18333078 5.8 15.35151 124.97456 8.2 122 24 Sep 2019 06:30.600 SFI3 S10 convappr 182520105 5.8 15.4552 125.25456 8.2 123 24 Sep 2019 06:30.600 SFI3 S11 convolver 18333079 5.8 15.24552 125.25456 8.2 123 24 Sep 2019 06:40.20 SFI3 S12 control to the state of	115	22 Sep 2019	02:49:32	SF12_S07_nearconvcell2	184020492	4.5	18.12490	124.41769	6.8
118 22 Sep 2019 03:15:22 SF12, S10_Eouthow 1825:10651 6.1 18.09288 125.54010 8.8 192 28 Sep 2019 03:15:15 SF12_S11_S1_S10_S1 1825:11244 5.5 18.40951 128.03883 8.9 120 24 Sep 2019 01:51:14 SF13_S01_satchar 1825:11244 5.5 18.40951 128.03883 8.9 122 24 Sep 2019 02:21:41 SF13_S02_satchar2 1825:0123 5.5 18.40951 128.03883 8.9 122 24 Sep 2019 02:21:41 SF13_S02_satchar2 1825:0123 5.5 18.40951 128.03883 8.9 128.23520 128									
119 22 Sep 2019 06:14:15 SFI2_SII_shiwcufid									
120 24 Sep 2019 01:51:14 SF13 SO1 satchar 1825:11244 5.5 18.40951 128.038831 8.2 121 24 Sep 2019 01:51:14 SF13 SO2 satchar2 1825:0123 5.5 18.18093 127.9440 8.1 123 24 Sep 2019 02:51:21 SF13 SO3 sbackcow 1825:0123 5.5 18.18093 127.9540 6.7 124 24 Sep 2019 03:00:09 SF13 S06_NEconvcell 1833:0090 3.8 18.20554 127.78173 5.9 122 24 Sep 2019 03:00:09 SF13_S06_NEconvcell 1833:0090 3.8 18.20554 127.78173 5.9 122 24 Sep 2019 03:00:15 SF13_S06_NEconvcell 1833:0090 3.8 18.20554 127.78173 5.9 122 24 Sep 2019 03:00:15 SF13_S06_NEconvcell 1833:0090 3.8 18.20554 127.78173 5.9 127 24 Sep 2019 05:13:15 SF13_S06_NEconvcell 1833:1010 3.7 77.98733 127.48119 5.7 127 24 Sep 2019 06:19:32 SF13_S06_SNEconvcell 1833:1010 3.7 77.98733 127.48119 5.7 127 24 Sep 2019 06:36:00 SF13_S11_convtwn 1833:00978 5.8 15:24552 125.23954 8.2 129 24 Sep 2019 06:36:00 SF13_S11_convtwn 1825:0010 5.8 15:4653 125:4952 125:23954 8.2 123 24 Sep 2019 06:48:20 SF13_S13_S13_centrountwar 1825:0010 5.8 15:4653 125:4073 7.9 131 24 Sep 2019 06:48:20 SF13_S13_S13_centrountwar 1825:0010 5.8 15:4638 125:49837 7.1 132 24 Sep 2019 06:48:20 SF13_S13_S13_centrountwar 1823:0010 5.8 15:4638 125:49837 7.1 132 24 Sep 2019 06:48:20 SF13_S13_S13_centrountwar 1823:0010 5.8 15:4638 125:49837 7.8 133 25 Sep 2019 04:46:49 SF14_S02_centrountyrar 1833:005 6.2 16:64021 123:33877 8.6 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 7.8 13:4983 125:4983 125:4983 125:4983 125:4983 125:4983 125:4983 125:4983 125:4983 125:4983 125:4983 125:498									
122 24 Sep 2019 02:51:21 SF13 SO2_susthur2 183301777 4.9 17:19607 125:7567 7.3 7.3 7.3 7.3 7.3 7.1 7.3									
122 24 Sep 2019 02:21:41 SF13.S02.satchar3 18330777 4.9 17.19607 125.76529 7.3 123 24 Sep 2019 03:00:657 SF13.S06.NEconvell 183330980 3.8 18.20554 127.8173 5.9 125 24 Sep 2019 03:00:657 SF13.S07_NFconvell 183330980 3.8 18.20554 127.8173 5.9 125 24 Sep 2019 03:04:57 SF13.S07_NFconvell 183330980 3.8 18.20554 127.8173 5.9 126 24 Sep 2019 06:19:23 SF13.S08_SWconvell 183331013 3.2 17.84758 127.21107 4.9 127 24 Sep 2019 06:19:23 SF13.S01_cnearconv 183330778 5.8 15.404818 125.348778 8.5 129 24 Sep 2019 06:36:00 SF13.S11_cnearconv 183330778 5.8 15.8191 24.97456 8.4 129 24 Sep 2019 06:36:00 SF13.S11_convtwr 183330778 5.8 15.24552 125.23954 8.2 130 24 Sep 2019 06:36:00 SF13.S11_centronvtwr 182650210 5.8 15.46331 125.50101 7.9 131 24 Sep 2019 06:48:20 SF13.S14_convtwron 182530050 5.8 15.46331 125.50101 7.9 131 24 Sep 2019 06:48:20 SF13.S14_convtwron 182530090 5.8 15.24552 125.23954 8.2 132 24 Sep 2019 06:48:20 SF13.S14_convtwron 182530090 5.8 15.24657 125.50101 7.9 131 24 Sep 2019 06:48:20 SF13.S14_convtwron 182530090 5.8 15.24657 125.64637 7.1 125.4488 7.8 132 24 Sep 2019 08:05:13 SF13.S15_convtnln 183330780 4.0 15.01782 125.16837 6.3 134 24 Sep 2019 08:05:13 SF13.S15_convtnln 183330780 4.0 15.01782 125.16837 6.3 135.25 Sep 2019 03:41:04 SF14.S01_centarSARSI 183331005 6.2 16:4021 123.33877 8.6 13.2 15.25 12									
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124 Sep 2019 03:00:09 SF13 S06 NEconvell 183330:980 3.8 18:20:54 127:8173 5.9 125 24 Sep 2019 03:13:21 SF13 S07 NEconvell 183331040 3.7 17:8753 127:48119 5.7 126 24 Sep 2019 06:19:32 SF13 S06 Seconvell 18333103 3.2 17:84758 127:21107 4.9 127 24 Sep 2019 06:19:32 SF13 S06 Lonearonv 18333103 3.2 17:84758 127:21107 4.9 128 24 Sep 2019 06:36:00 SF13 S16 Lonearonv 183331097 5.8 15:4018 125:34873 8.5 129 24 Sep 2019 06:36:00 SF13 S11 Lonearonv 183331097 5.8 15:24552 125:23954 8.2 130 24 Sep 2019 06:36:00 SF13 S12 Lonearonv 183331099 5.8 15:24552 125:23954 8.2 131 24 Sep 2019 06:48:20 SF13 S12 entreonview 182650210 5.8 15:46633 125:49837 7.1 132 24 Sep 2019 06:48:20 SF13 S13 entreonview 182650210 5.8 15:46633 125:49837 7.1 132 24 Sep 2019 06:48:20 SF13 S15 convirum 182650210 5.8 15:46633 125:49837 7.1 132 24 Sep 2019 08:05:13 SF13 S15 convirum 182650210 5.8 15:46633 125:49837 7.1 132 24 Sep 2019 08:05:13 SF13 S15 convirum 182650210 5.8 15:46633 125:49837 7.1 132 24 Sep 2019 08:05:13 SF13 S15 convirum 182650210 5.8 15:46633 125:49837 7.1 132 24 Sep 2019 08:07:39 SF13 S16 convirum 182650210 5.8 15:46632 123:33877 8.6 6.3 13:4562 125:46837 6.3 13:4562 125:4683									
125 24 Sep 2019 03:04:57 SF13 SOT NEconvell 1833:1040 3.7 17.98733 127.48119 5.7 126 24 Sep 2019 06:19:32 SF13 SOS Sweanvell 1833:103 3.2 17.84758 127.21107 4.9 127 24 Sep 2019 06:19:32 SF13 SOS Convappr 1825:20105 5.8 16:40818 125:34873 8.5 128 24 Sep 2019 06:31:26 SF13 S10 Convappr 1825:20105 5.8 16:40818 125:34873 8.5 129 24 Sep 2019 06:36:200 SF13 S11 Convtror 1833:31079 5.8 15:35119 124:97456 8.4 130 24 Sep 2019 06:40:20 SF13 S12 entrecontwer 1833:31095 5.8 15:3633 125:23594 8.2 131 24 Sep 2019 06:40:20 SF13 S12 entrecontwer 1833:310315 5.8 15:46633 125:50101 7.9 131 24 Sep 2019 06:52:21 SF13 S14 Convtwno2 1827:30029 5.8 15:24617 125:24488 7.8 133 24 Sep 2019 08:40:31 SF13 S15 Convlink 1833:3080 4.0 15:01782 125:16837 6.3 134 24 Sep 2019 08:40:73 SF13 S16 coverconv 1833:31046 3.3 15:08702 125:26395 5.0 135 25 Sep 2019 04:40:61:3 SF14 S01 chrechar(SARSI 1833:3005 6.2 16:40:21 123:33877 8.6 136 25 Sep 2019 04:40:61:3 SF14 S01 chrechar(SARSI 1833:3005 6.8 14:840:56 124:11906 9.6 137 25 Sep 2019 04:54:22 SF14 S05 chraconvrgn1 1833:3008 6.8 14:840:56 124:11906 9.6 139 25 Sep 2019 04:54:22 SF14 S05 covaballowcell 1833:31137 6.8 13:823:88 126:36554 9.4 140 25 Sep 2019 04:54:22 SF14 S05 sovaballowcell 1833:31137 6.8 13:823:88 126:36554 9.4 141 25 Sep 2019 04:54:22 SF15 S01 acolust 182:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8 13:40:40:40 4.8									
126 24 Sep 2019 06:19:32 SF13 S08 SWconvcell									
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140	138	25 Sep 2019	04:45:39	SF14_S04_Eshallowcell	183330982	6.8	13.74697	126.78096	9.6
141 25 Sep 2019 06:40:52 SF14_S07_Wflnkdeepconv 183331013 4.8 13.47349 124.10999 6.6 142 27 Sep 2019 20:58:12 SF15_S01_aeolus1 182440314 5.5 16.0586 121.91020 8.0 143 27 Sep 2019 21:19:05 SF15_S02_aeolus2 18334003 5.5 17.83800 122.22658 8.2 144 27 Sep 2019 21:27:20 SF15_S03_aeolus3 182440317 6.1 18.53053 122.35152 8.3 145 27 Sep 2019 21:39:50 SF15_S03_aeolus4 183340055 6.1 19.60284 122.54713 8.7 146 27 Sep 2019 22:20:20:8 SF15_S05_aeolus5 183331124 6.2 21.15666 122.86006 9.1 147 27 Sep 2019 22:24:58 SF15_S05_aeolus5 183331124 6.2 21.15666 122.86006 9.1 147 27 Sep 2019 22:24:58 SF15_S05_aeolus5 183331140 3.9 20.69528 125.21254 5.6 149 28 Sep 2019 00:43:03 SF15_S07_wall2 183331140 3.9 20.69528 125.21254 5.6 149 28 Sep 2019 02:35:13 SF15_S08_wall3 182440315 3.6 22.18031 124.8843 5.5 150 29 Sep 2019 02:54:25 SF16_S01_fieldshlwcu 183331136 3.8 16.59286 120.1484 6.3 151 29 Sep 2019 02:54:25 SF16_S01_fieldshlwcu 183331136 3.8 16.59286 120.1750 5.7 152 29 Sep 2019 04:57:37 SF16_S02_learcomparea 183331136 3.8 16.59286 120.1750 5.7 152 29 Sep 2019 04:57:37 SF16_S03_top16 183330029 6.4 18.39121 119.96600 9.1 155 29 Sep 2019 05:00:38 SF16_S06_cp3 183330981 6.4 18.23902 119.77083 9.0 155 29 Sep 2019 05:00:38 SF16_S06_cp3 183330081 6.4 18.23902 119.77083 9.0 155 29 Sep 2019 05:00:38 SF16_S06_cp3 183310406 6.4 18.09691 119.63047 9.1 157 29 Sep 2019 05:00:38 SF16_S06_cp3 183310006 5.5 18.15039 119.66911 8.0 157 29 Sep 2019 05:00:38 SF16_S06_cp3 183310006 5.5 18.15039 119.66911 8.0 157 29 Sep 2019 05:00:38 SF16_S06_cp3 183310006 5.5 18.5039 119.66911 8.0 157 29 Sep 2019 05:00:38 SF16_S06_cp3 183310006 5.5 18.45006 12.08857 8.2 160 29 Sep 2019 05:00:38	139	25 Sep 2019	04:54:22	SF14_S05_ovrshallowcell	183331137	6.8		126.58554	9.4
142	140	25 Sep 2019	06:21:59	SF14_S06_Sdeepconv	182440318	6.8	13.45681	124.04438	9.9
143	141	25 Sep 2019	06:40:52	SF14_S07_Wflnkdeepconv	183331013		13.47349	124.10999	
144 27 Sep 2019 21:27:20 SF15_S03_aeolus3 182440317 6.1 18.53053 122.35152 8.3 145 27 Sep 2019 21:39:50 SF15_S04_aeolus4 183340055 6.1 19.60284 122.54713 8.7 146 27 Sep 2019 22:02:08 SF15_S05_aeolus5 18334124 6.2 21.15666 122.86006 9.1 147 27 Sep 2019 22:24:58 SF15_S06_wall1 18251060 6.2 20.65351 124.08073 8.8 148 28 Sep 2019 00:43:03 SF15_S07_wall2 183331140 3.9 20.69528 125.21254 5.6 149 28 Sep 2019 00:43:03 SF15_S08_wall3 182440315 3.6 22.18031 124.8843 5.5 150 29 Sep 2019 02:35:13 SF16_S01_feldshlwcu 183331138 4.2 16.28768 120.21484 6.3 151 29 Sep 2019 03:03:37 SF16_S02_learcomparea 183331136 3.8 16.59286 120.10750 5.7 152 29 Sep 2019 04:13:31 SF16_S03_topofbs1 183340013 5.8 16.87515 119.71376 8.5 153 29 Sep 2019 04:57:37 SF16_S04_cp1 18334103 6.2 18.53801 120.19555 8.9 154 29 Sep 2019 05:00:38 SF16_S05_cp2 18334009 6.4 18.39121 119.96600 9.1 155 29 Sep 2019 05:00:31 SF16_S06_cp3 183330981 6.4 18.2902 119.77083 9.0 156 29 Sep 2019 05:00:53 SF16_S06_cp3 183310981 6.4 18.09691 119.6047 9.1 157 29 Sep 2019 05:05:35 SF16_S07_cp4 18351040 6.4 18.09691 119.6047 9.1 157 29 Sep 2019 05:05:50 SF16_S09_CP6 183510006 5.5 18.10539 119.66911 8.0 158 29 Sep 2019 05:22:47 SF16_S10_CP7 183451039 5.5 18.29233 119.90040 8.1 160 29 Sep 2019 05:25:50 SF16_S10_CP7 183451039 5.5 18.29233 119.90040 8.1 161 29 Sep 2019 07:05:03 SF16_S10_CP7 183451039 5.5 18.29233 119.90040 8.1 162 29 Sep 2019 07:05:03 SF16_S10_CP7 183451039 5.5 18.45006 120.08857 8.2 163 29 Sep 2019 07:05:03 SF16_S10_CP7 183451039 5.5 18.76193 120.46188 8.0 164 29 Sep 2019 07:05:03 SF16_S10_CP2_1 183510005 5.1 17.34817 118.76653 9.9 165 29 Sep 2019			20:58:12			5.5		121.91020	
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161 29 Sep 2019 05:31:40 SF16_S12_CP9 183451042 5.5 18.76193 120.46188 8.0 162 29 Sep 2019 07:05:03 SF16_S13_CP2_1 183510105 7.1 17.34817 118.76653 9.9 163 29 Sep 2019 07:06:44 SF16_S13_CP2_2 183510009 7.1 17.45564 118.87294 9.7 164 29 Sep 2019 07:11:02 SF16_S14_CP2_3 182510627 7.1 17.64537 119.22962 10.1 165 29 Sep 2019 07:30:03 SF16_S15_CP2_4 182510634 5.6 18.24846 120.30191 8.4 166 29 Sep 2019 07:42:40 SF16_S16_outsidecp 183330837 5.5 17.53510 119.75576 8.0 167 01 Oct 2019 22:14:00 SF17_S01_charWLuzon 182510630 5.5 16.97047 120.19277 8.1 168 01 Oct 2019 22:40:57 SF17_S02_charNWLuzon 183510008 5.5 18.71139 119.88367 8.1 170									
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169 01 Oct 2019 23:04:59 SF17_S03_charNWLuzon2 182510632 5.5 18.71139 119.88367 8.1 170 02 Oct 2019 02:15:59 SF17_S04_boxsprltop 183331139 4.8 19.45009 119.94759 7.1 171 02 Oct 2019 02:26:45 SF17_S05_PPtrsct1 182720750 4.8 19.70203 120.61869 7.1 172 02 Oct 2019 02:27:52 SF17_S06_PPtrsct2 183510466 4.8 19.64716 120.68499 7.1									
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171 02 Oct 2019 02:26:45 SF17_S05_PPtrsct1 182720750 4.8 19:70203 120:61869 7.1 172 02 Oct 2019 02:27:52 SF17_S06_PPtrsct2 183510466 4.8 19:64716 120:68499 7.1	170			SF17_S04_boxsprltop		4.8	19.45009		7.1
	171			SF17_S05_PPtrsct1	182720750	4.8		120.61869	7.1
173 02 Oct 2019 02:28:56 SF17_S07_PPtrsct3 183510104 4.8 19.59611 120.74682 7.1	172	02 Oct 2019				4.8	19.64716		
_ , , , , , , , , , , , , , , , , , , ,	173	02 Oct 2019	02:28:56	SF17_S07_PPtrsct3	183510104	4.8	19.59611	120.74682	7.1

CAMP²Ex 2019, Dropsonde Data Quality Report

174	02 Oct 2019	03:03:17	SF17_S09_nearWV	183510094	4.8	18.53480	119.72113	6.8
175	02 Oct 2019	03:34:52	SF17_S10_NLuzon	182650208	4.8	20.06211	120.75438	7.1
176	02 Oct 2019	03:41:08	SF17_S11_NLuzon2	183311025	4.8	20.55173	121.08987	7.1
177	02 Oct 2019	04:01:04	SF17_S12_SWcldstrt	183510010	4.8	19.98548	120.50305	7.2
178	02 Oct 2019	05:45:03	SF17_S13_recharNWLuzon	183311033	4.8	18.35608	119.75379	7.3
179	03 Oct 2019	23:13:35	SF18_S01_midHSRLtrsct	183330166	6.1	14.88287	121.68468	8.8
180	03 Oct 2019	23:26:02	SF18_S02_NHSRLtrsct	182720634	4.8	15.35813	121.50284	7.0
181	03 Oct 2019	23:37:43	SF18_S03_SHSRLtrsct	183330174	4.8	14.50718	121.83488	7.2
182	04 Oct 2019	00:51:06	SF18_S04_WManilaBay	183321190	4.8	14.32504	120.51329	7.2
183	04 Oct 2019	00:54:46	SF18_S05_N_WWall	183510463	4.8	14.15790	120.34621	7.2
184	04 Oct 2019	00:58:35	SF18_S06_midpt_WWall	183510093	4.8	13.89385	120.45665	7.3
185	04 Oct 2019	01:03:22	SF18_S07_S_WWall	183321189	4.8	13.55738	120.59604	7.3
186	05 Oct 2019	02:33:31	SF19_S01	182650209	5.5	15.89128	124.46170	8.0
187	05 Oct 2019	04:27:45	SF19_S02	183311026	4.2	16.71724	124.83980	6.4
188	05 Oct 2019	04:39:49	SF19_S03	183330173	4.2	16.38263	125.53044	6.0
189	05 Oct 2019	05:58:39	SF19_S03	183321193	7.0	16.81197	124.96883	9.9
190	05 Oct 2019	06:05:00	SF19_S05	183311030	7.1	16.58675	124.41272	10.1
191	05 Oct 2019	06:08:20	SF19_S06	183321192	7.1	16.46738	124.11503	10.0
192	05 Oct 2019	06:10:44	SF19_S07	183311032	7.1	16.38238	123.90349	9.9
193	05 Oct 2019	06:17:19	SF19_S08	183311021	7.1	16.04107	123.93610	6.4
194	05 Oct 2019	06:23:52	SF19_S09	183320168	7.1	16.49021	124.26899	9.7